



## Recombinant Extreme Thermostable SSB (ET SSB) protein

Cat. No.: ITI011674-125ug

### DESCRIPTION

**Product Overview:** Recombinant Extreme Thermostable SSB (ET SSB) protein was purified from an E.coli strain that overexpresses the SSB gene isolated from a hyperthermophilic microorganism.

**Description:** Extreme Thermostable SSB is a single-stranded DNA binding protein isolated from a hyperthermophilic microorganism. It remains fully active after incubation at 95°C for up to 60 minutes. Due to its ability to withstand extremely high temperature environments, ET SSB can be used in applications that require extremely high temperature conditions, such as nucleic acid amplification and sequencing.

**Protocol:** Assayed by incubating circular single-stranded, linear, or negatively supercoiled DNA for 1 h at 37°C. ET SSB is active in any polymerase buffer. Add 200 ng of ET SSB per 50 µl reaction.

**Source:** E.coli

**Species:** hyperthermophilic microorganism

**Bio-activity:** Assayed by incubating circular single-stranded, linear, or negatively supercoiled DNA for 1 h at 37°C. ET SSB is active in any polymerase buffer. Add 200 ng of ET SSB per 50 ul reaction.

**Concentration:** 500 ug/ml

**Applications:** ET SSB can be used in applications that require extremely high temperature conditions, such as nucleic acid amplification and sequencing.

Improve the processivity of DNA polymerase

Stabilization and marking of ssDNA structure

Increase the yield and specificity of PCR

Increase the yield and processivity of RT during RT-PCR

Improve DNA sequencing through regions with strong secondary structure

**Storage:** Store at -20°C

**Shipping:** Dry ice

**Gene Name:** Extreme Thermostable SSB

**Official Symbol:** ET SSB

This product is for research use only and is not intended for diagnostic use.